

Application No: 10/535,151
Amendment A
Reply to Office Action Dated 09/25/2007

Attorney Docket No: 3926.168

IN THE CLAIMS:

The following listing of claims replaces any earlier listing:

1. (currently amended) A wheel (10), ~~having~~ comprising:
a main body (12), and
at least one reinforcing structure (14) ~~which increases the~~ for increasing a strength
of the wheel (10),
wherein the reinforcing structure (14) ~~being is~~ at least partially integrated inside
the main body (12), and
wherein the reinforcing structure (14) is prestressed under a pretensile stress
serving to increase the a compressive strength.
2. (previously presented) The wheel as claimed in claim 1, wherein the reinforcing structure
(14) is at least partially integrally cast in the main body (12).
3. (previously presented) The wheel as claimed in claim 1, wherein the main body (12) has a
nave component (16) and a blade component (18), the reinforcing structure (14) being
arranged in the nave component (16) and/or in the blade component (18).
4. (previously presented) The wheel as claimed in claim 1, wherein the reinforcing structure
(14) takes the form of a prefabricated reinforcing element (20).
5. (previously presented) The wheel as claimed in claim 4, wherein the reinforcing element
(20) takes the form of a strengthening tube (22), which is integrated in the nave component
(16) of the wheel (10).

{WP451782;1}

- 3 -

Application No: 10/535,151

Amendment A

Reply to Office Action Dated 09/25/2007

Attorney Docket No: 3926.168

6. (previously presented) The wheel as claimed in claim 1, wherein the reinforcing structure (14) has a mesh inlay (24).
7. (previously presented) The wheel as claimed in claim 6, wherein the mesh inlay (24) comprises a plurality of mesh components (26, 28, 30) extending in a radial direction and/or in an axial direction and/or in a peripheral direction in relation to the wheel (10).
8. (previously presented) The wheel as claimed in claim 6, wherein the mesh inlay (24) is arranged, at least in part, immediately below the surface (31) of the main body (12).
9. (previously presented) The wheel as claimed in claim 6, wherein the mesh inlay (24) is arranged at least partially at the surface (31) of the main body (12).
10. (previously presented) The wheel as claimed in claim 1, wherein the reinforcing structure (14) additionally has a reinforcing component (32) arranged entirely externally in relation to the main body (12) and fixed thereto.
11. (previously presented) The wheel as claimed in claim 10, wherein the external reinforcing component (32), as a stiffening element (34) at least partially reproducing the blade geometry, is provided with an at least partially integrated inlay structure (36).
12. (previously presented) The wheel as claimed in claim 10, wherein the external reinforcing component (32) takes the form of a high-strength circular banding unit.
13. (cancelled).
14. (previously presented) The wheel as claimed in claim 1, wherein the reinforcing structure (14) has a multiplicity of reinforcing fibers (38) freely distributed in the main body (12).

{WP451782;1}

Application No: 10/535,151
Amendment A
Reply to Office Action Dated 09/25/2007

Attorney Docket No: 3926.168

15. (previously presented) The wheel as claimed in claim 1, wherein the reinforcing structure (14) has high-strength metal fibers and/or carbon fibers and/or glass fibers.
16. (previously presented) The wheel as claimed in claim 1, wherein the main body (12) is manufactured using aluminum as basic material.
17. (currently amended) The wheel as claimed in claim 1, wherein ~~[[it]]~~ the wheel is a compressor wheel and in particular a compressor wheel for an exhaust-gas turbocharger of a motor vehicle.

{WP451782;1}

- 5 -